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RELIABILITY PREDICTION

Model: S-320 Data:1999-12-24

Style	Part Type	Q'ty	λ_g	π_Q	λ_{eg}	%
9.1	Resistor-Film, Insulated (RL)	51	0.003700	10	1.887000	35.610
9.1	Resistor-Wirewound Power (RW)	3	0.008500	10	0.255000	4.812
9.1	Resistor-Film, Variable (RVC)	1	0.040000	10	0.400000	7.549
9.1	Resistor-Thermistor (RTH)	1	0.001400	10	0.014000	0.264
10.1	Capacitor-Metal, Plastic (CH)	9	0.000510	10	0.045900	0.866
10.1	Capacitor-Ceramic(Gen.) (CK)	14	0.001700	10	0.238000	4.491
10.1	Capacitor-Aluminum Dry (CE)	12	0.001300	10	0.156000	2.944
6.1	Diode-Switching	11	0.000940	8	0.082720	1.561
6.1	Diode-Fast Recovery Power Rectifier	4	0.023000	8	0.736000	13.889
6.1	Diode-Power Rectifier / Schottky Power	4	0.002800	8	0.089600	1.691
6.1	Diode-Voltage Ref/Reg. (Avalanche & Zener)	3	0.003300	8	0.079200	1.495
6.1	Diode-Transient Suppressor/Varistor	3	0.002900	8	0.069600	1.313
6.10	Diode-Thyristor/SCR	1	0.002500	8	0.020000	0.377
6.3	Transistor-NPN/PNP	5	0.000150	8	0.006000	0.113
6.4	Transistor-MOSFET	2	0.014000	8	0.224000	4.227
6.11	OPTO-isolator	2	0.027000	8	0.432000	8.152
6.11	OPTO-Emitter	1	0.000470	8	0.003760	0.071
5.1	Linear Microcircuits	4	0.009500	10	0.380000	7.171
11.1	Transformer Switching	1	0.000610	3	0.001830	0.035
11.2	Coil Fixed inductor or choke	2	0.000032	3	0.000192	0.004
15.1	Connector- Rectangular	1	0.050000	2	0.100000	1.887
17.1	Single Connections-Reflow solder	348	0.000069	1	0.024012	0.453
17.1	Fuses Clip-Clip Termination	2	0.000120	1	0.000240	0.005
22.1	Fuses	1	0.010000	1	0.010000	0.189
16.1	Plated Through Hole Circuit Boards	1	0.022000	2	0.044000	0.830
Total Failure rate:					5.299054	100%

- **Data Base: MIL-HDBK-217F ,Notice 2, Parts Count**
- **Env.: GB**
- **Exclude: FAN**

MTBF: 188712.93 **hrs**

Approved by: David Wang Compiled by: Kim Tseng